

Amitai Assayag

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📺 4X5LP

Programming

- Python / C# / C++
- MATLAB / Arduino

Skills

- ML / Computer Vision
- Algorithms / LLMs
- NLP / Research
- Cloud / Git

Life Skills

Amateur Radio Operator

- Licensed to build, own and operate radio equipment

Army

- Combat Engineer
- Medic

Other

- Bartending
- Electronics
- Piano

Languages

- Hebrew-Native
- English-Fluent
- French-Basic

Experience

- 2020–Now **AGAT Software** Cybersecurity and compliance company
Head of AI R&D
- Spearheaded the training, fine-tuning, and utilization of AI models and pipelines, ranging from simple ML models to big LLMs like LLaMA, by effectively implementing and incorporating insights from cutting-edge research papers and the latest innovative repositories like LangChain.
 - Managed end-to-end development of diverse AI projects, leading them from conceptualization to successful deployment for customers.
 - Provided expert guidance and leadership to the AI R&D team, fostering a collaborative and innovative environment that nurtured their professional growth and maximized project outcomes.
 - Proactively researched and integrated state-of-the-art AI methodologies and technologies into ongoing projects, ensuring the company remains at the forefront of AI advancements and maintains a competitive edge.
- 2021–Now **QuantumCyte** Biotech company specializing in AI-integrated pathology & molecular diagnostics
Computer Vision and Machine Learning Engineer
- Developed CV algorithms and utilized various ML techniques to automate manual-intensive and precision-challenging operations, with a strong focus on optimizing for fast computation.
 - Integrated the developed algorithms into user-friendly UIs and APIs to facilitate seamless utilization and integration with existing systems.
 - Collaborated with cross-functional teams to understand project requirements and deliver innovative solutions for complex technical challenges.
- 2014–2020 **The Hebrew University of Jerusalem**
Academic Assistant in the Einstein Institute of Mathematics
- Conducted thorough grading of students' papers and exams, providing constructive feedback to foster academic growth.
 - Actively engaged with students during office hours, delivering effective teaching and guidance to support their learning objectives.
- 2016 **AGAT Software** Cybersecurity and compliance company
Programmer & Project Supervisor
- Developed, integrated, and upgraded security solutions addressing vulnerabilities arising from employee mobile devices connecting to the company's network.
 - Successfully managed and coordinated a team to integrate security programs with MDM systems.
 - Designed and implemented innovative solutions to seamlessly integrate our custom RP server with other RPSs such as BigIP and NetScaler.
 - Built advanced monitoring and diagnostic tools for the company's RP server using C# & Python, optimizing SIP/HTTP/S protocols and ensuring robust certificates & encryption.

Education

- 2017–2019 **Masters of Mathematics** The Hebrew University of Jerusalem
- **Thesis** Generators for Finite Index Subgroups of $SL_n(\mathcal{O}_k)$
 - **Award** Dean's list for the first year.
- 2013–2016 **Bachelor of Mathematics & Physics** The Hebrew University of Jerusalem

Certifications

- 2020 **Specializations & Certificates** on Coursera
- **Over 30 Specializations & Certificates (465+ Hours)** in AI, ML & Data Science
- Full list is available [here](#)*
- 2012–2013 **Professional Certificate** in .NET Development John Bryce College, Matrix

Personal Fun

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- **Over 20 years of proficient coding experience in a wide range of programming languages. Explore some of my showcased projects from the past at ami-a.github.io**